



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,652	01/08/2002	Jeffrey Bruce Lotspiech	ARC920010090US1	7388
7590 John L. Rogitz Rogitz & Associates 750 B Street, Suite 3120 San Diego, CA 92101			EXAMINER WYSZYNSKI, AUBREY H	
			ART UNIT 2134	PAPER NUMBER
			MAIL DATE 07/31/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/042,652

Applicant(s)

LOTSPIECH ET AL.

Examiner

Aubrey H. Berger

Art Unit

2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 11/02/2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-25 and 28-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-25 and 28-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. The response of 11/02/2005 was received and considered.
2. Claims 1, 3-25, 28-48 are pending.

Response to Arguments

3. Applicant's response amends the drawings and specification to overcome the objections set forth in the previous Office Action and therefore those objections are withdrawn.
4. Applicant's response (page 11, ¶1) argues the provisional double patenting rejection against claims 1-22 based on U.S. Patent Application Number 09/770,877 because the co-pending application is the parent application of this application and has the same priority date. However, the provisional double patenting rejection is maintained because the limitations of present claims 1 and 3-22 are obvious in view of either one of Yokota, Knauff, or Richards and in view of Ishiguro and Schneider and in further view of the copending parent application.
5. Applicant's arguments (page 11, ¶2) with respect to claims 1-2 and 24-27 have been considered but are moot in view of the new ground(s) of rejection.
6. Applicant's response (page 11, ¶3) argues, "rejections should be strictly confined to the best available art. Cumulative rejections should be avoided, MPEP §706.02." The applicant is reminded that prior art rejections should ordinarily be confined strictly to the best available art. Exceptions may properly be made for example, where: (B) a

claim is met only in terms by a reference which does not disclose the inventive concept involved. MPEP §706.02.

7. Applicant's response (page 12) argues the rejection of claim 41. The rejection is clarified below to further explain Richards.

8. Applicant's response (page 13) argues the examiner must explain where in the reference Richards gives license to rename the keys, in order to fit the rejections. However, the names or titles of the keys in Richards are inconsequential. A key represents a value given to an algorithm used to encrypt or decrypt and assigning a name to a particular key does not change its functionality. Furthermore, the definitions of the device key, session key, channel unique key, etc. are not explained in the claim language.

9. Applicant's response (page 14, ¶2) argues the rejection of claim 44. The rejection is clarified below to further explain Richards.

10. Applicant's response (page 14, ¶4) argues the names or titles assigned to the keys of Ishiguro do not match the names or titles of the keys in the claims. Again, the names or titles of the keys in Ishiguro are inconsequential for the same reasons as mentioned above.

11. Applicant's arguments (page 15) with respect to claims 1-2 and 24-27 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

13. Claims 41-46 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Number 6,690,795 to Richards.

Regarding claim 41 and 43, Richards discloses a player/system, for decrypting streamed content (col. 2, lines 42-44; col. 1, lines 21-23), comprising: at least one device key K_d /UEV (fig. 14), means for decrypting a session key K_s /CAK, using the device key K_d /UEV, means for decrypting a channel unique key K_{cu} /CCK, using at least the session key K_s /CAK, and means for deriving a title key K_T /PK, using at least the channel unique key K_{cu} /CCK, the title key K_T /PK, being useful for decrypting content (fig. 14).

Regarding claim 42, Richards discloses the player/system, of claim 41, wherein the content is multicast to the player (col. 1, lines 13-18).

Regarding claim 44, Richards discloses a computer program device comprising: a computer program storage device including a program of instructions usable by a computer (col. 2, line 63), comprising: logic means for receiving private information I_u /UEV register (fig. 14) upon registration with a content provider, logic means for

Art Unit: 2134

subscribing to at least one content channel provided by the content provider (col. 3, lines 7-12), logic means for receiving at least one encrypted channel key K_c /control channel key (fig. 14), at least partially in response to subscribing to the channel, logic means for deriving the channel key K_c /control channel key, using the information I_c /UEV, and logic means for using at least the channel key K_c /control channel key, to decrypt content streamed over the channel (fig. 14).

Regarding claim 45, Richards discloses the computer program device of claim 44, further comprising: plural device keys K_d /customer code, logic means for receiving at least one session key block/DES (col. 21 lines 31-32), logic means for deriving at least one session key K_s /segment key, from the session key block using at least one device key K_d /customer code (fig. 8, #58).

Regarding claim 46, Richards discloses the computer program device of claim 45, further comprising: logic means for using the session key K_s /segment key, and channel key K_c /control channel key, to derive a channel unique key K_{cu} /channel access key, and logic means for using the channel unique key K_{cu} /channel access key, to decrypt a title key K_T /program key, useful for decrypting the content (fig. 27 & 28).

Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,691,149 to Yokota et al (Yokota) and further in view of U.S. Patent Application Publication Number 2002/0083319 to Ishiguro et al (Ishiguro).

Regarding claim 1, Yokota discloses a method for securely transmitting multicast data (col. 5, lines 37-42), comprising: encrypting at least one title T/content, with at least title key K_T /contents key, and encrypting the title key K_T /contents key, with at least one channel-unique key K_{cu} /storage key (col. 9, lines 33-37), using at least one encryption function S/DES (col. 9, lines 14-16), to render a multicast data channel encrypted as $S_{K_{cu}}(K_T)$, $S_{K_T}(T)$, (fig. 1, # 22).

Yokota lacks a channel-unique key that is a result of a combination of a concatenation of the channel key and session key. However, Ishiguro teaches wherein the channel-unique key K_{cu}/e , is the result of a combination of a channel key $K_c/e1$, and a session key $K_s/e2$, wherein the combination is a hash function of a concatenation of the channel key $K_c/e1$, and session key $K_s/e2$, (¶ [0104]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of either Yokota with the device of Ishiguro. One of ordinary skill in the art would have been motivated to perform such a modification to the device of Yokota because Ishiguro teaches combining the channel key/e1, and session key/e2, to form the channel-unique key/e further improves the security of the authentication procedure and the security of transmitted information by preventing an unauthorized user from

Art Unit: 2134

posing as an authorized user using a desired piece of electronic equipment (¶[0014] & fig. 7).

16. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication Number 2001/0029581 to Knauft and further in view of U.S. Patent Application Publication Number 2002/0083319 to Ishiguro et al (Ishiguro).

Regarding claim 1, Knauft discloses a method for securely transmitting multicast data comprising: encrypting at least one title T/data object, with at least title key K_T /symmetric session key, and encrypting the title key K_T /symmetric session key (fig. 5A, #502), with at least one channel-unique key K_{cu} /public program key (fig. 5A, #504), using at least one encryption function S, to render a multicast data channel encrypted as $S_{K_{cu}}(K_T)$, $S_{K_T}(T)$, (fig. 5A, #514).

Knauft lacks a channel-unique key that is a result of a combination of a concatenation of the channel key and session key. However, Ishiguro teaches wherein the channel-unique key K_{cu}/e , is the result of a combination of a channel key $K_c/e1$, and a session key $K_s/e2$, wherein the combination is a hash function of a concatenation of the channel key $K_c/e1$, and session key $K_s/e2$, (¶ [0104]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of either Knauft with the device of Ishiguro. One of ordinary skill in the art would have been motivated to perform such a modification to the device of Knauft because Ishiguro teaches combining the channel key/ $e1$, and session key/ $e2$, to form the channel-unique key/ e further improves the security of the authentication procedure

Art Unit: 2134

and the security of transmitted information by preventing an unauthorized user from posing as an authorized user using a desired piece of electronic equipment (¶[0014] & fig. 7).

1. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,690,795 to Richards and further in view of U.S. Patent Application Publication Number 2002/0083319 to Ishiguro et al (Ishiguro).

Regarding claim 1, Richards discloses a method for securely transmitting multicast data (fig. 1), comprising: encrypting at least one title T/program A (fig. 2, #2), with at least title key K_T /Segment Key (fig. 2, #2), and encrypting the title key K_T /Segment Key, with at least one channel-unique key K_{cu} /Customer_code (fig. 2), using at least one encryption function S/DES (col. 6, lines 8-10), to render a multicast data channel encrypted as $S_{K_{cu}}(K_T)$, $S_{K_T}(T)$, (fig. 2, #9).

Richards lacks a channel-unique key that is a result of a combination of a concatenation of the channel key and session key. However, Ishiguro teaches wherein the channel-unique key K_{cu}/e , is the result of a combination of a channel key $K_c/e1$, and a session key $K_s/e2$, wherein the combination is a hash function of a concatenation of the channel key $K_c/e1$, and session key $K_s/e2$, (¶ [0104]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of either Richards with the device of Ishiguro. One of ordinary skill in the art would have been motivated to perform such a modification to the device of Richards because Ishiguro teaches combining the channel key/ $e1$, and session key/ $e2$,

to form the channel-unique key/e further improves the security of the authentication procedure and the security of transmitted information by preventing an unauthorized user from posing as an authorized user using a desired piece of electronic equipment (¶[0014] & fig. 7).

2. Claims 3-16, 23, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Yokota, Knauft, or Richards as individually applied to claim 1 above, and further in view of U.S. Patent Application Publication Number 2002/0083319 to Ishiguro et al (Ishiguro).

Regarding claim 3, Yokota, Knauft, or Richards further disclose the method of claim 1 as modified above, wherein the combination is a hash function of a concatenation of the channel key $K_c/e1$, and session key $K_s/e2$, (Ishiguro, ¶ [0104]).

Regarding claim 4, Yokota, Knauft, or Richards further disclose the method of claim 2 as modified above, wherein the session key $K_s/e2$, is encrypted with at least a first encryption scheme B_{s1}^R/DES [Ishiguro, ¶ [0079], to render a session key block/sk2' (Ishiguro, ¶ [0105]).

Regarding claim 5, Yokota, Knauft, or Richards further disclose the method of claim 4 as modified above by Ishiguro, comprising providing at least one player with device keys K_d /license key (Ishiguro, fig. 4), to activate the player [Ishiguro, ¶ [0065]].

Regarding claim 6, Yokota, Knauft, or Richards further disclose the method of claim 5 as modified above by Ishiguro, comprising providing the player with the channel key $K_c/e1$ (Ishiguro, fig. 6).

Regarding claim 7, Yokota, Knauff, or Richards further disclose the method of claim 6 as modified above by Ishiguro, wherein at least one of the providing acts is undertaken in a point-to-point communication (Ishiguro, fig. 1).

Regarding claim 8, Yokota, Knauff, or Richards further disclose the method of claim 6 as modified above by Ishiguro, wherein at least one of the providing acts is undertaken as part of a broadcast (Ishiguro, ¶ [0105]).

Regarding claim 9, Yokota, Knauff, or Richards further disclose the method of claim 6 as modified above by Ishiguro, comprising providing the player with the session key block/sk2' (Ishiguro, fig. 6).

Regarding claim 10, Yokota, Knauff, or Richards further disclose the method of claim 9 as modified above by Ishiguro, wherein the player can determine the session key $K_s/e2$, from the session key block/sk2', using the device keys K_d /license key (Ishiguro, ¶ [0105]).

Regarding claim 11, Yokota, Knauff, or Richards further disclose the method of claim 10 as modified above by Ishiguro, comprising periodically refreshing the channel key $K_c/e1$, (Ishiguro, fig. 7, steps 48-51) to enforce subscriptions.

Regarding claim 12, Yokota, Knauff, or Richards further disclose the method of claim 10 as modified above by Ishiguro, comprising selectively updating the session key block [Ishiguro, ¶[0128].

Regarding claim 13, Yokota, Knauff, or Richards further disclose the method of claim 12 as modified above by Ishiguro, comprising updating the session key block/sk2',

Art Unit: 2134

by encrypting an updated session key/e2, with at least the encryption scheme B_{s1}^R/DES (Ishiguro, ¶ [0079]).

Regarding claim 14, Yokota, Knauff, or Richards further disclose the method of claim 11 as modified above by Ishiguro, wherein a new channel key $K_c'/e1$, is encrypted with at least a second encryption scheme B_{s2}^R/n -bit block encryption (Ishiguro, ¶ [0241]).

Regarding claim 15, Yokota, Knauff, or Richards further disclose the method of claim 14 as modified above by Ishiguro, wherein the new channel key $K_c'/e1$, is sent in a message that is split (Ishiguro, fig. 7, steps 48-51).

Regarding claim 16, Yokota, Knauff, or Richards further disclose the method of claim 14 as modified above by Ishiguro, wherein the new channel key $K_c'/e1$, is refreshed using plural messages (Ishiguro, fig. 7, steps 48-51).

Regarding claim 23, Yokota, Knauff, or Richards discloses the method of claim 1, as modified above by Ishiguro, wherein the content is streamed to players (Richards, col. 2, lines 41-43).

Regarding claim 47, Yokota, Knauff, or Richards further disclose the method of claim 14 as modified above by Ishiguro, wherein the new channel key $K_c'/e1$, is sent in-band with the title T (Ishiguro, fig. 7).

Ishiguro lacks partitioning players not in a revoked set R into disjoint subsets and encrypting the session key with the subset keys.

3. Claims 24-25, 28-40 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richards, and further in view of Ishiguro.

Regarding claim 24, Richards discloses a method for enforcing copy protection compliance and subscription compliance comprising: providing players with respective device keys K_d /customer code, useful for enabling copy protection compliance, and providing players with at least one channel key K_c /working key (control channel key), useful for enabling subscription compliance such that a player can decrypt content only if the player is both compliant with copy protection and the player is an active subscriber to a content channel (col. 4, lines 43-46; fig. 27 & 28); encrypting at least one title T /program A (fig. 2, #2), with at least title key K_T /Segment Key (fig. 2, #2), and encrypting the title key K_T /Segment Key, with at least one channel-unique key K_{cu} /Customer_code, using at least one encryption function S /DES (col. 6, lines 8-10), to render a multicast data channel encrypted as $S_{K_{cu}}(K_T)$, $S_{KT}(T)$, (fig. 2, #9)

Richards lacks a channel-unique key that is a result of a combination of a concatenation of the channel key and session key. However, Ishiguro teaches wherein the channel-unique key K_{cu}/e , is the result of a combination of a channel key $K_c/e1$, and a session key $K_s/e2$, wherein the combination is a hash function of a concatenation of the channel key $K_c/e1$, and session key $K_s/e2$, (§ [0104]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of either Richards with the device of Ishiguro. One of ordinary skill in the art would have been motivated to perform such a modification to the device of Richards because Ishiguro teaches combining the channel key/ $e1$, and session key/ $e2$, to form

Art Unit: 2134

the channel-unique key/e further improves the security of the authentication procedure and the security of transmitted information by preventing an unauthorized user from posing as an authorized user using a desired piece of electronic equipment (¶[0014] & fig. 7).

Regarding claim 25, Richards discloses the method of claim 24 as modified above by Ishiguro, wherein the content is streamed to players (Richards, col. 2, lines 41-43).

As per claims 28-37, 39-40, and 48 all claimed limitations have been addressed and/or cited as set forth above corresponding to claims 2-12, 15-16, and 48 respectively.

Regarding claim 38, Richards discloses the method of claim 35 as modified above by Ishiguro, wherein the new channel key $K_c'/e1$, is refreshed by encrypting a new channel key $K_c'/e1$, with at least one encryption scheme (Ishiguro, fig. 7, steps 48-51).

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Art Unit: 2134

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1 and 3-22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 15-17 copending Application No. 09/770,877 in view of Yokota, Knauff, or Richards, in view of Ishiguro, and in further view of "Applied Cryptography" by Schneier.

a. Claims 15-17 is substantially equivalent to claims 17-22 of the instant application, except for the additional subject matter recited in claims 1-16. However, as described above, Yokota, Knauff, or Richards teaches these limitations are obvious. Further instant claims 17-22 recite B_{s2}^R which is not present in the prior application. However, Schneier teaches DES is a common form of block encryption and would be obvious to one of ordinary skill at the time the invention was made (page 270, 12.2)

This is a provisional obviousness-type double patenting rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aubrey H. Berger whose telephone number is (571)272-8155. The examiner can normally be reached on Monday - Thursday, 7:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Morse can be reached on (571)272-3838. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2134

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2134

Application Number**Application/Control No.**

10/042,652

**Applicant(s)/Patent under
Reexamination**

LOTSPIECH ET AL.

Examiner

Aubrey H. Berger

Art Unit

2134